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MISCELLANEOUS.

172. Proposed by W. J. GREENSTREET, M. A., Editor of The Mathematical Gazette, Stroud, England.

If ϕ and ψ are small angles, show that an approximate value of ϕ/ψ is

$$\tfrac{2}{3}\frac{\sin\phi}{\sin\psi}+\tfrac{1}{3}\frac{\tan\phi}{\tan\psi}-\tfrac{1}{180}(\phi^2-\psi^2)(9\phi^2-\psi^2).$$

NOTES AND NEWS.

The August-September number of THE AMERICAN MATHEMATICAL MONTHLY will not appear until September 28th.

Dr. A. L. Underhill, Instructor at Princeton University, has been appointed to an Instructorship in Mathematics at the University of Wisconsin.

Professor A. L. Rhoton, of Southwestern University, Jackson, Tenn., has been appointed Professor of Mathematics at Georgetown College, Georgetown, Kentucky.

Mr. W. V. Lovitt, who took the Master's degree at the University of Chicago in June, has been appointed to an Instructorship in Mathematics at the University of Washington, Seattle, Wash.

At a recent meeting of the regents of the University of West Virginia, Dr. John A. Eiesland, of the United States Naval Academy, was elected to the chair of mathematics in that institution.

Dr. Oswald Veblen, Preceptor in Princeton University, has been promoted to an Assistant Professorship in Mathematics. Mr. Veblen received his Doctor's degree at the University of Chicago in 1903.

Mr. G. D. Birkhoff received his Doctorate in Mathematics at the University of Chicago at the June Convocation. Dr. Birkhoff has been appointed Instructor in Mathematics at the University of Wisconsin.